

COLUMN TANDAMENT OF THE STREET

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NON AFFECTED CONTROLS=76 >65 YEARS PSA<4 ASSOCIATION STUDIES (FIRST SCREENING) 35 SPORADIC CASES +77 FAMILIAL CASES AFFECTED CASES= 117 POPULATION CHARACTERISTICS POPULATION SAMPLE SIZE

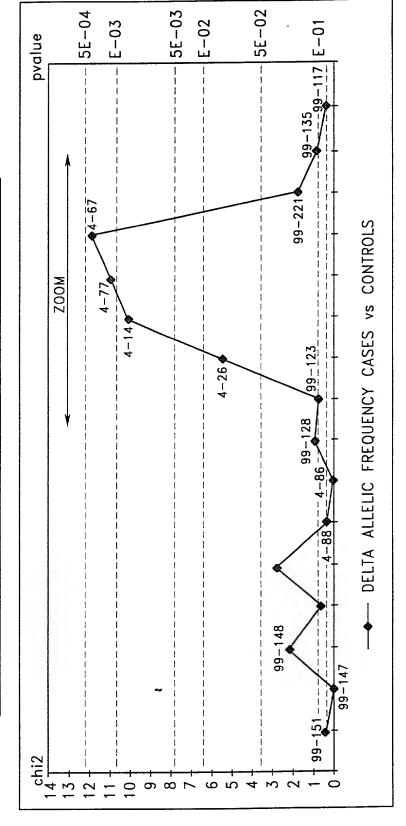


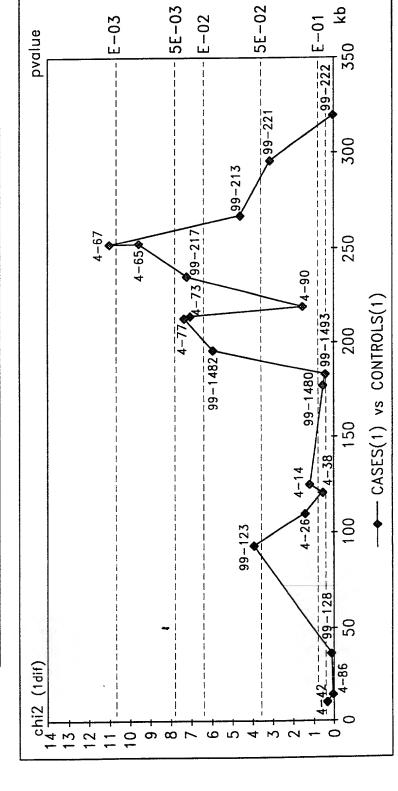
FIG.2

All this manner manner by the

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ASSOCIATION STUDIES (ZOOM)

	AFFECTED	UNAFFECTED
	CASES (185)	CONTROLS (104)
CHARACTERISTICS	47 SPORADIC CASES	>65 YEARS
OF POPULATIONS	+138 FAMILIAL CASES	PSA<4



continuation of a second second

FIG.3

HAPLOTYPE FREQUENCY ANALYSIS

POPULATIONS

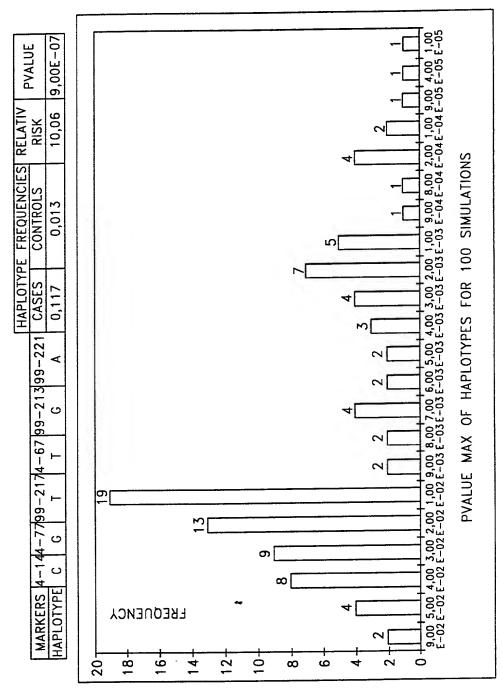
UNAFFECTED	CONTROLS 3 (130)	>65 YEARS	PSA<4
AFFECTED	CASES 2 (281)	143 SPORADIC CASES	+138 FAMILIAL CASES
		CHARACTERISTICS	OF POPULATIONS

			PVALUE			9,00E-04 ***	6,00E-05 ***	1,005-05****	10,06 9,00E-07****	2,00E-05****	2,00E-05****	4,00E-05****	2,00E-04***	1,00E-04***	3,00E-04***	6,00E-04**
			RELATIVE	RISK		4,42	6,46	6,78	10,06	5,17	4,78	2,33	2,17	2,32	2,01	2,05
	HAPLOTYPE	REQUENCIES		CASES CONTROLS	,_,	0,018	0,016	0,019	0,117 0,013	0,025	0,027	0,222 0,109	0,251 0,134	0,226 0,112	0,256 0,146	0,233 0,129
		FREQU				0,075	0,095	0,116	0,117	0,117	0,117	0,222	0,251	0,226	0,256	0,233
99-135	80725812			2,005-0	>100KB<	۷	۷									
99-221				7,00E-01	<29KB>>	٧	٧	٧	A	A	A					
4-77 99-217 4-67 99-213 99-221 99-135				,00E-01 2,00E-02 2,00E-02 6,00E-04 9,00E-02 7,00E-012,00E-01	<15KB> <29KB>>100KB<	9	ပ	9	ပ	9	9	9		9	_	9
4-67	B0463F01		Å	6,00E-04	<17KB>	⊢	_	⊢	F	_	⊢	1	T	⊢	Ţ	1
99-217	3	33	– PG1 —	2,00E-02	<88KB> <22KB> <17KB>	⊢	<u>_</u>	⊢	j	⊢	F	-	⊢	⊢	1	
4-77		11453	Y	2,00E-02	<88KB>	ပ	ပ	ပ	ပ	ပ		S	ပ			
4-14	B0189E08				<15KB>	ပ	ပ	ပ	ပ							
4-26	801			,00E-01	<18KB>	4	¥	⋖								
99-123 4-26	H0287809			2,00E-011,00E-011	~	ပ										
MARKERS	BACS	CONTIGS	GENES	P VALUE	DISTANCE BETWEEN MARKERS(KB)	IAPLOTYPE 8>304KB<	IAPLOTYPE 7>286KB<	IAPLOTYPE 6<186KB>	IAPLOTYPE 5<171KB>	HAPLOTYPE 4<83KB>	HAPLOTYPE 3.1<54KB>	HAPLOTYPE 3.2<54KB>	HAPLOTYPE 2.2<39KB>	HAPLOTYPE 2<32KB>	HAPLOTYPE 1.1<17KB>	HAPLOTYPE 1.2<15KB>

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FIG.4

HAPLOTYPE SIMULATIONS (100 ITERATIONS)

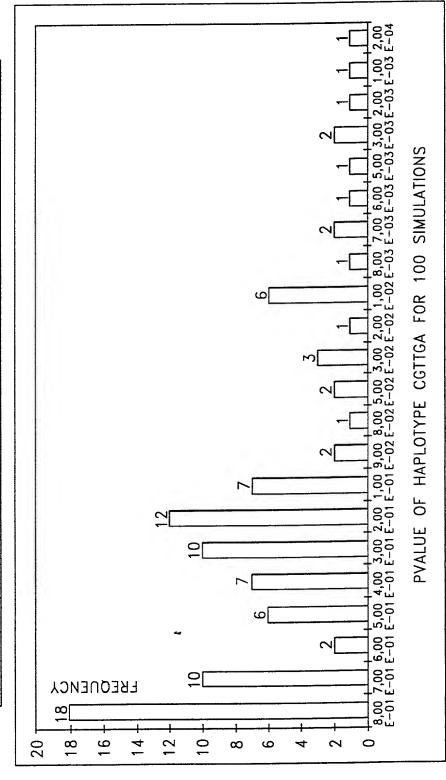


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FIG.5A

HAPLOTYPE SIMULATIONS (100 ITERATIONS)

						-	HAPLOTYPE F	HAPLOTYPE FREQUENCIES 1	RELATIV	21112
MARKERS 4-14	1-14	4-77	99-217	4-67	99 - 213	44-7799-2174-67 99-213 99-221	CASES	CONTROLS	RISK	r vALUE
HAPLOTYPE	ပ	ပ	-	_	ပ	∢	0,117	0,013	10,06	9,00E-07



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FIG.5B

SEQ ID RP SEQUENCE SEQ ID POLYMORPHISM BASE 39
C MARKER SEQ ID PU SEQUENCE SEQ ID POLYMORPHISM BASE N 18 99-123 21 30 AAAGCCAGGACTAGAAGG 39 TATTCAGAAGGAGGGGGGG 48 24 A/G 189 4-26 22 31 TAGGCCCTGTAAGACAC 40 GAGGACTGCTAGGAAG 49 24 A/G 189 4-7 24 33 TGTAGCTCTCATCCAAC 40 GAGGACTGCTTAGAAG 49 24 A/G 1463 4-77 24 33 TGTAGCTCATCCAAC 40 GAGGACTGCTTGAAGGAGGAAG 49 24 A/G 1463 4-77 24 33 TGTAGCTCATCCAAC 40 GAGGAGGTAGAAG 50 24 C/T 1- 1463 4-77 24 33 TGTTGATTTACAGGCGGG 42 GGTGGGAATTTACTATAG 43 24 C/T 1- 1463 4-67 26 35 AAGTTCACCTTCCAGGCGCTTTGGTGGGGGGGGGGGGGG
C. MARKER SEQ ID PU SEQUENCE SEQ ID PU SEQUENCE SEQ ID PPOSTITION* BASE 18 99-123 21 30 AAAGCCAGGACTAGAAGGAAGG 39 14TAGAAAGGAAGG 48 24 24 24 24 24 24 24 24 24 24 24 24 24
C MARKER SEQ ID PU SEQUENCE SEQ ID RP SEQUENCE SEQ ID 18 99-123 21 30 AAAGCCAGGACTAGAAGG 39 TATTCAGAAAGGAGGGGGGGGGGGGGGGGGGGGGGGGGG
C MARKER SEQ ID PU SEQUENCE SEQ ID RP SEQUENCE SEQ ID 18 99-123 21 30 AAAGCCAGGACTAGAAGG 39 TATTCAGAAAGGAGGGGGGGGGGGGGGGGGGGGGGGGGG
C MARKER SEQ ID SEQ ID PU SEQUENCE SEQ ID N°(MUT) AAAGCCAGGACTAGAAGG 39 4-26 22 31 TACAGCCCTGTAGAACG 40 189 4-12 23 32 TACAGCCCTGTAGACAC 41 17 24 32 32 TGTTGATTTACAGCGC 42 161 463 4-77 25 34 GGTGGCAATTTACAGCGCG 42 161 463 4-67 25 35 AAGTTCACCTTCTAAGC 44 163 99-213 27 35 ATACTGGCAGCGTGTTC 45 166 AAGTTGTATTACAGC 44 17 166 AAGTTGTATTACAGC 47 17 166 AAGTTGTATTACAGC 47 17 166 AAGTTGTATTACAGC 47 17 166 AAGTTGTATTATTACAGC 47 17 166 AAGTTGTATTACAGC 47 17 166 AAGTTGTATTATTACAGC 47 17 18 18 18 18 18 18 18 18 18 18 18 18 18
C MARKER SEQ ID SEQ ID PU SEQUENCE 18 99-123 21 30 AAAGCCAGGACTAGAAGG 189 4-26 22 31 TACAGCCCTGTAAGACAC 189 4-14 23 32 TACAGCCTTCATCCAAC 189 9-217 25 34 GGTGGAATTTACAGGCGGG 18 99-217 25 35 AAGTTCACCTTCAAGC 18 99-213 28 37 CCCTTTTTCACGTTC 18 99-135 29 38 TGGAAGTTGTTACAGGCGGCGTC 18 99-213 28 37 CCCTTTTTCTCACGTTC 18 99-135 29 38 TGGAAGTTGTTCACTGTTC 18 99-135 29 38 TGGAAGTTGTTATTGCCC
C MARKER SEQ ID SEQ ID PU N'(MUT) SEQ ID PU AAAGCC 31 TAAAGCC 189 4-14 23 31 TAAAGCC 189 4-17 24 33 TGTTGA 53 99-217 25 35 AAGTTG 53 99-213 27 35 TGTAAAGCC 55 99-135 29 35 TGGAAA
C MARKER SEQ 1D SE 19 99–123 21 1463 4–7 24 25 25 4–67 24 25 39–217 25 39–217 25 39–217 25 39–213 27 28 39–213 27 28 39–213 27 28 39–213 27 28 39–213 27 28 39–213 27 28 39–213 28 39–213 28
C MARKER SE(89 99-123 189 4-14 463 4-77 463 4-77 463 4-67 39-217 99-213 99-135
C 189 1463 1463
C 189 1463 1463

FIG.6A

*: POSITIONS ARE GIVEN RELATIVE TO THE SEQUENCE OF THE CORRESPONDING MARKER (i.e. SEQ ID Nº 21-38 AND 57-62)

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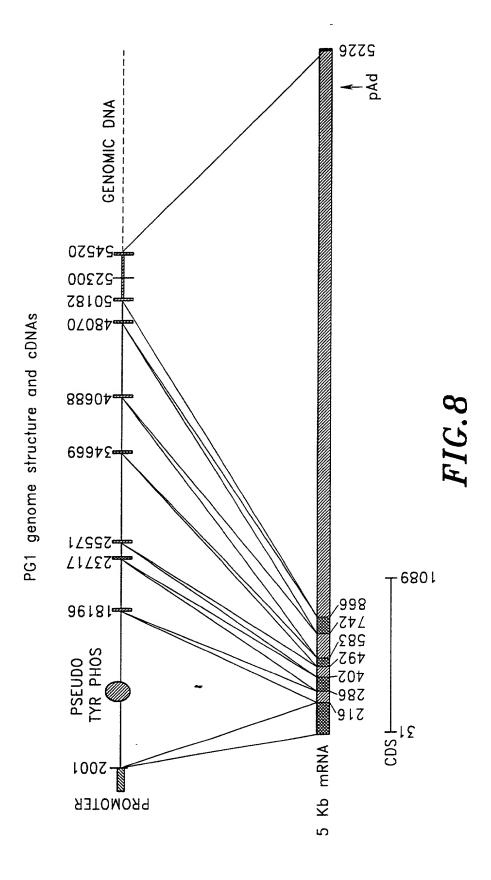
BAC	MARKER	SEQ ID	SEO ID N*(MUT)	PU SEQUENCE	SEO D	RP SEQUENCE	SEQ ID	POLYMORPHISM POSITION*	BASE	POLYMORPHISM BASE MICROSEQ. OLIGOS POSITIONS*
189/46. 463 463	399-1482 4-73 4-65	57 58 59	60 61 62	ATCAAATCAGTGAAGTCTGAG ATCGCTGGAACATTCTGG GATTTAAGCTACGCTATTAG	63 65	ACAAATCTATATAAGGCTGG CTCTTGGTTAAACAGCAGTG TGGCTCTGCATTTCTTCC	66 67 68	24 24 24	2 2 2 2 1 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3	A/C 1-23 25-47 (COMPLEMENTARY) G/C 1-23 25-47 (COMPLEMENTARY) C/T 1-23 25-47 (COMPLEMENTARY)

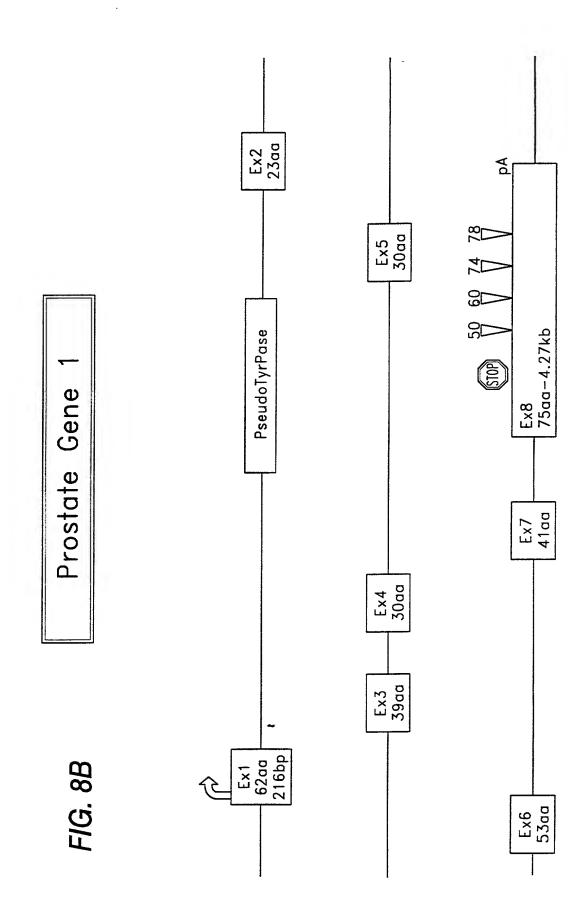
FIG.6B

*: POSITIONS ARE GIVEN RELATIVE TO THE SEQUENCE OF THE CORRESPONDING MARKER (i.e. SEQ ID Nº 21-38 AND 57-62)

EXON Phase	START	END	5' SPsite	PHASE	3' SPsite
Ex1 +0	2001	2216			GTGAGC
Ex2 +1	18196	18265	TAG	+0	GTTTGTA
Ex3 +0	23717	23832	CAG	+2	GTAACT
Ex4 +0	25571	25660	CAG	+0	GTAAGA
Ex5 +2	34669	34759	CAG	+0	GTAAGT
Ex6 +1	40688	40846	TAG	+1	GTAAGT
Ex7 +2	48070	48193	TAG	+2	GTGAGT
Ex8	50182	54523	TAG	+1	
ATG codon	2031	2033			
STOP codon	50405	50407			
POLY Ad site	54445	54450			

FIG. 7





The equipment of the $\alpha \in \mathbb{N}$

		box 1	box 2	box 3
PG1	Hs	NHQ 81-83	FPEGTR 160-165	LDAIYDVTV 211-219
AF003136 (Genbank)	Ce	NHQ 630-632	FPEGTR 712-717	LDAIYDVTV 762-770
Z72511 (Genbank)	Ce	48 NHR 50	FPEGTD 129-134	VEYIYDITI 204-212
P38226 (Swissport	Sc :)	111 NHQ 113	FPEGTN 223-228	IESLYDITI 271-279
P33333 (Swissport	Sc :)	81 NHQ 83	FPEGTR 154-159	-
Z49770 (Genbank)	Sc	116 NHQ 118	FPEGTN 215-220	LDAIYDVTI 265-273
P26647 (Swissport	Ec)	72 NHQ 74	FPEGTR 145-150	-
Z49860 (Genbank)	Bn	-	FVEGTR 90-95	VPAIYDMTV 138-146
U89336 (Genbank)	Hs	95 NHQ 97	FPEGTR 168-173	-
U56417 (Genbank)	Hs	103 NHQ 105	FPEGTR 176-181	-
AB005623 (Genbank)	Mm	100 NHQ 102	FPEGTR 173-178	
Z29518 (Genbank)	Zm	91 NHR 93	FVEGTR 170-175	VPAIYDTTV 218-226

Hs = Homo sapiens, Ce = Caenorabibitis elegans, Ec = Escherichia coli; Sc = Saccharomyces cerevisiae, Bn = Brassica napus, Zm = Zea maize, Mm = Mus Musculus

Note: Funcitional acyl glycerol transferases all contain boxes 1 and 2 and not box 3. Proteins most related to PG1 contain the 3 boxes with a high degree of conservation.

FIG. 9

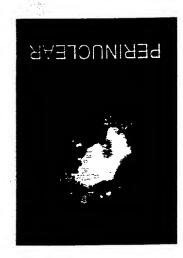
^{- =} pattern absent from protein sequence

CONTRACTOR AND ARREST DE

FIG. 10

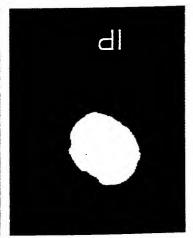
A MANAGEMENT OF STREET PARTY AND ADDRESS OF THE PARTY AND ADDRESS OF TH

FIG. 11

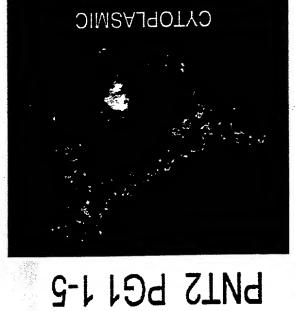


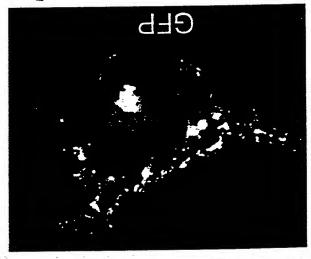
PC3 PG1 8-1







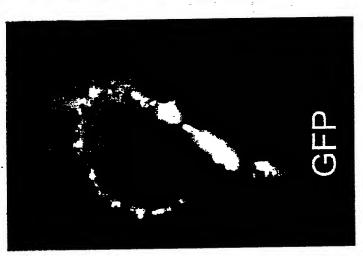


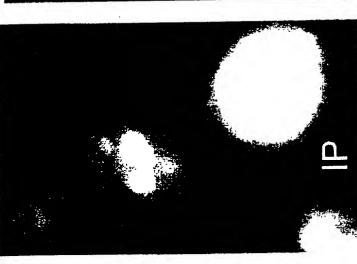


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FIG. 12







PNT2 PG1 mut229

FIG. 13

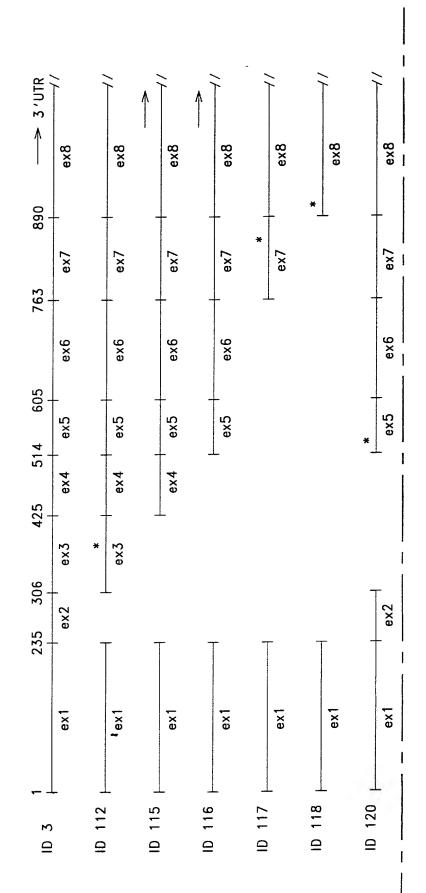
1

FIG. 14A

FIG. 14

FIG. 14B

Alternative splicing



application (Color of

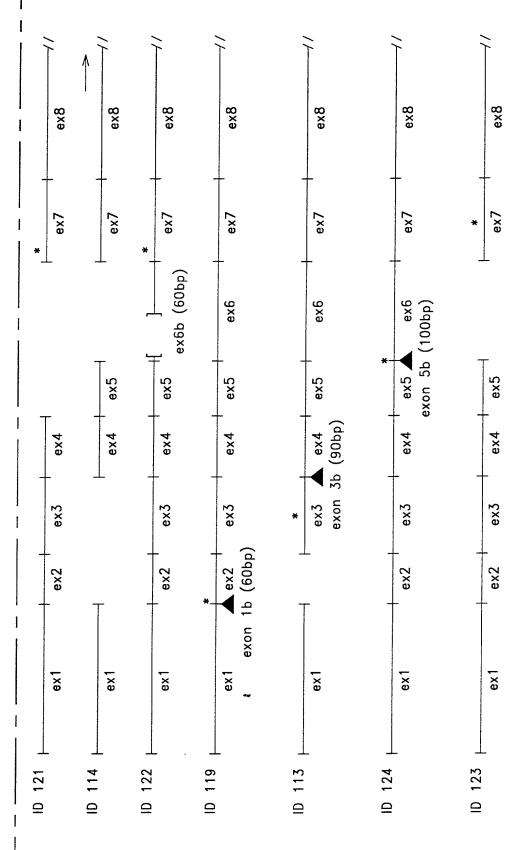


FIG. 14B

A METABLISTIA DE LE PROPERTIE DE LA CONTROL DE LA CONTROL

Combination of exons of PG1 gene discovered by PCR with primers specific for exon borders

						.	~																							\Box
		е				.nCaPFCG	NCaPJMB																_		_	_		2	2	4
Printer	Clones	orostat	1	18	2	αР	aP	CoHPV	Du145		2	9	7	8	õ	ECP10	ECP11	ECP12	ECP13	14	ECP15	ECP16	11	ECP18	19	ECP20	ECP21	ECP22		P2
- <u>-</u> -	ō	ro	PNT	PNT1B	PNT	nC	2	,oH	11	PC3	ECP5	ECP6	ECP7	ECP8	ECP9	CF	CF	CF	S	ECP1	CF	S	ECP1	Ċ	ECP1	SCF	S	Ξ		ECP
		<u>a</u>	<u>a</u> .	777	<u>a.</u>		<u> </u>	777	777	<u>ц</u> ,	777	<u> </u>	22	777	777	777	777	777	7777	7777	777	777	77		70	77	70	00		
TOTORETTE																							90							\mathcal{Z}
1 CTCXCITT	22	20	22	22	20	20	ŹŹ	22	2/2	2	22	22	22	22	222	22	200	22	200	22	01/2	22	21/	27/2	27/2	27/2	01/	27/	27/4	27/2
PG1exon15	+	_	_	_	_	_	_	NT	_	_	+	_	-	_	-	_	-	_	1	=	_	_	_	_	<u> </u>	_	+			\exists
PG1exon16	-	+	-	+	+	_	_	NT	_	_	_	_	+	_	_	_	-	-	_	_		_	1	_	_	+	+	\vdash	+	
PG1exon17	+	+	+	+	+	+	+	NT	+	+	_	_	+	_	_	_	+	+	+	+	+	+	+	_	_	-	Τ_			\exists
PG1exon18	+	+	+	+	+	-	- ////	NT	+	+ ///	-	-	 ////	-	-	-	- 770	- 770	-	70	+	700	- 70	- (///	00	720	72	720		72
PG1exon24	22	2	2	2	M	200	2	2	2/2	M	20	20	22	22	222	010	21/2	212	27/2	22/2	21/2	71/2	01/	07/2	77/	0 7/2	07/	27/4	+	224
PG1exon25	+	+	-	+	+	-		NT	+	-	-	_	-	<u> </u>	-	-	+	-	- 00	70	+		- (7(7)	70	00		72	72		
PG1exon26		X)		2	2	2	2	X	2	24	22	20	22	22		20		22	200	22/2		224	08/	77/	77/2	ØZ/2	07/	<i>0</i> 74	<i>7</i> 7/	<i>7</i> 22
PG1exon27	_	_	_	+	+	_	_	NT	+	_		_		_	_	_	_	+	_	_	+	_		_	<u> </u>	_	_		 	_
PG1exon28	_	_	+	_	_	_	_	NT	_	_	_	_	_	-			_	_	_	_	_	<u> </u>	_	_	<u> </u>	_	<u>-</u>	-		\exists
PG1exon35	_	+	+	+	+	+	7777	NT	+	+	_	-	_	-	<u>-</u>	-	+	+	- ////	+	+	+	-	-	+	+	+	+		
PG1exon36		2	2	2	X	Ź	44	M	2	ŹŹ	2	20	2	20	22	20	20	22	2012	22	M	22	01/2	27/2	22	21/2	27/	27/4	224	224
PG1exon37	_	_	_	-	_	-	_	NT	_	_	_	_	_	_	_	_	_	_	_	_	-	_		_	_	_	_		\dashv	\dashv
PG1exon38	_	_	_	_	_	_	_	NT	_	+	_	_	-	-	_	-	-	- :	- ////	-	+	-	-	777	-	- ///	+	770		
PG1exon46				X						X									24											
PG1exon47				1	M	2	2	M	2	20	2	Ź	2	010	22		ð L	22		22	20	22	21/2	21/2	22/	27/2	27/	200	224	2014
PG1exon48	_	_	-	_	+	-	-	NT	-	-	-	-	+	-	-	-	-	- 1100	- ////	-	-	-	70	- ////	00	- ///	72	700	<i>a</i>	
PG1exon57	2	1	25/2	2	2	2	M	M.	20	2	2	2	22		222		000	200	24/2	20	200	22	01/	(ZZ)	22	201/2	27/	+	27/2	224
PG1exon58	_	_	_	_	-	+	+	NT	_	_	-	_	_	-	_	_		-	-	_	_	_	-	<u> </u>	=	_	F		+	+
PG1exon68	_	+	+	<u> </u>	+	+	+	NT	+	+	_	_	_	_	+	+	-	-	+	+	_	_	+	<u> </u>	_	-	+	=		$\frac{\perp}{\perp}$
PG1exon11b	+	+	+	+	+	+	+	NT	+	+	_	+	_	+	+	+	+	+	+	+	_	_	+	<u> </u>	_	+	++	++	Н	+
PG1exon1b2	+	+	+	+	+	+	+	NT	+	+	_	+	-	+	+	+	+	+	+	+	- 70	-	+	00	20	+	7	7	- V20	
PG1exon1b3		1		2	ŹŹ	Ź	ŹŹ	XX	2	2	2/2	2	77/	22	ŹΩ	21/2	01/2	010	24/	22	24	22	27/	22/	+	+	77/	27/	+	224
PG1exon1b4	<u> </u>	+	_	+	+	+	+	+	+	+	_	_	+	_	+	+	_		_	+	+	+	+	<u> </u>	T	+	+	+	+	\exists
PG1exon1b5		+	_	+	+	+	+	NT	+	+	-	-	+	-	-	-	+	+	7/1	77	+	000	+	- 77	V.W	7 VZ	/ ///	VZ	1	
PG1exon1b6		(<u>X</u>		2	2	<i>X</i> /	2	NT.	ŹŹ	22/2	2	2//	/	77/	ŹŹ	07/	200	21/2	27/	27/2	28/	/ ///	27/	77/	(TL)	77/	<i>7</i> 22	72/		
PG1exon1b7	L	+	_	+	+	+	+	NT	+	+	+	+	=	_	_	+	_	=	-	 -	_	-	ᆮ	-	Ε					
PG1exon1b8		-	_	+	-	+	-	NT	-	-	-	+	-	-	-	-	-	-	-	70	- ////	77	77/	//		- V <i>II</i>	02	12	100	
PG1exon3b4	Z	X	12/2		Ź	2	22	N.	22	2	2	2/	Ź	22	01/2	Ź	27/2	22	27/2	27/	27/2	77/	01/	<i>7</i> 22	77/	77/				
PG1exon3b5		-	-	+	+	-	-	NT	-	-	-	-	777	-	-	-	-	77	-	70	777	- ///	7	- V/L	02	72	- VZ	w	000	100
PG1exon3b6		2			2	2	22	NJ.	Ž	2/2	2	11/	2	2		2//	27/	22/2	01/	77/	77/	77/	<i>[X]</i>	77/	77/	27/	77/	122	222	222
PG1exon3b7	_	+	_	+	+	-		NT		+	=	+	_	_	_	=	<u>Γ</u>	_	-	 -	+	+	_	_	T	E	=	上	E	
PG1exon3b8		-	-	-	_	_		NT	-	<u> </u>	<u> -</u>	<u> </u>	_	_	_	二	-	-	<u> </u>	=	_	=	=	=	E	E	=	E		
PG1exon5b6	+		+	-	-	=						+	=	_	_	_	+	+	-	-	_	-		E	E	E	E	E		
PG1exon5b7	_	+	-	+		+		NT	-		_	-	-	-	=	_	_	F	-	=		+	E		E	Ξ		<u> </u>	-	
PG1exon5b8	100	-	-	1-		-		NT				7///	100	70	70	70	73	00	00	- V.O.	100	- VII.	1	VZ	VI	1/1/2	1/1/2	100	100	
PG1exon56b				1	X			1 1	(*//									00												
PG1exon46b		X						1 17	(* //												00	W.							W	
PG1exon36b		X	X			X		107																						
PG1exon26b				X	*			1 0.2							7															
PG1exon16b	1//	X X	<u>X</u>	X	XX	12 <u>1</u> 2	XX	122	XX	100	100	8/1/	101	17/	100/	17/	01/			XX/		<u> </u>	\mathcal{W}	XX	XX	X/Y/	X/Z	XXX	<u> </u>	<u> </u>

[+] alternative splicing form with combination of exons 13478 instead of 1345678

FIG. 15

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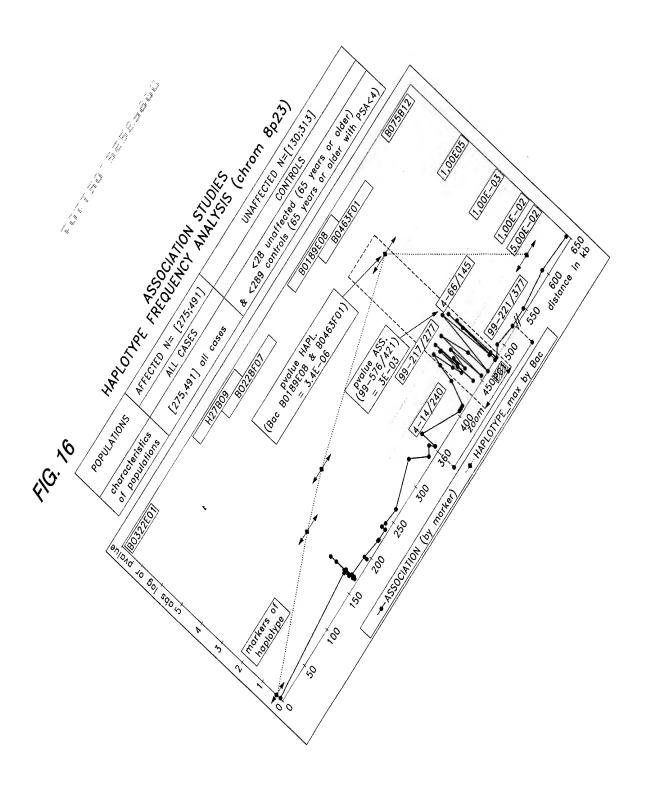
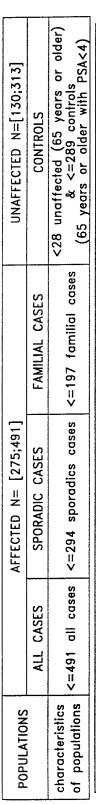
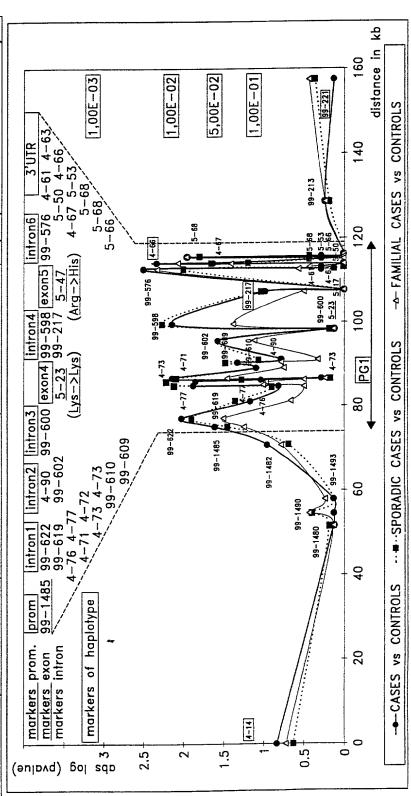


FIG. 17

ASSOCIATION STUDIES PG1 (8p23)





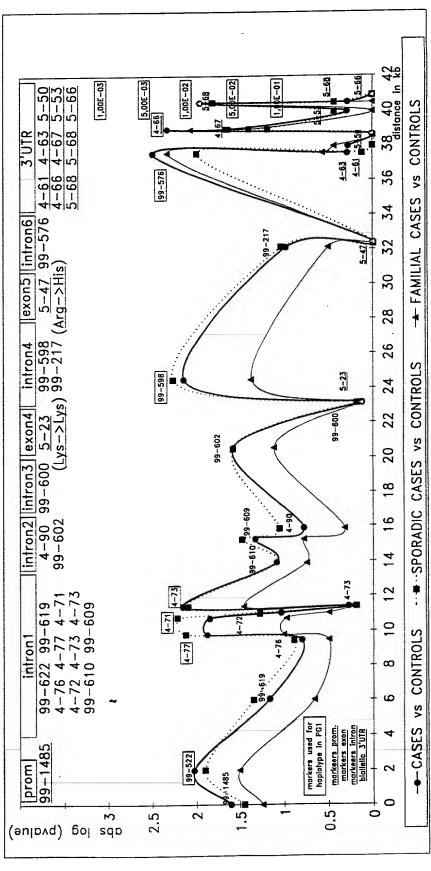
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ASSOCIATION STUDIES

FIG. 18A

PG1 (8p23)

SNOITA III ADA		AFFECTED N= [275;491]		UNAFFECTED N=[130;313]
	ALL CASES	SPORADIC CASES	FAMILIAL CASES	CONTROLS
characteristics of populations		<=491 all cases <=294 sporadics cases <=197 familial cases	<=197 familial cases	<28 unaffected (65 years or older) & <=289 controls (65 years or older with PSA<4)



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	Т	-		1	_			7	_	1		Į.	_			· · ·	_		
Attributable Risk	17.58	2	9	13.15	18.16	18.64	13.25	26.76	9	Q.	9.32	Q	Q	S	8.46	18.40	S	13.16	10.97
Freq(randoms)	0.29	\$QN	QN	0.41	0.31	0.28	0.31	0.52	QN	QN	0.28	ON	QN	QN.	0.28	0.24	ON	0.24	0.24
Pvalue	2.53E-02	9.64E-03	6.93E-02	1.57E-01	1.35E-02	1.43E-02	9.43E-02	7.29E-03	8.33E-02	4.83E-02	1.68E-01	2.69E-02	7.52E-01	7.29E-03	1.07E-01	3.18E-03	0,527§	4.68E-03	2.39E-02
Odd Ratio	1.44	1.51	1.37	1.23	1.43	1.49	1.29	1.48	1.30	1.36	1.25	1.44	1.01	1.55	1.20	1.72	1.76	1.43	1.33
abs diff % (fq(cases)— (fq(controls))	7.4	10.1	5.8	2	7.4	8.3	5.7	9.7	6.2	7	4.4	7.4	0.3	9.2	3.8	8.2	0.3	6.2	4.9
Freq(controls)	0.24	0.42	0.22	0.38	0.26	0.26	0.30	0.42	0.37	0.30	0.25	0.25	0.34	0.25	0.28	0.17	0.00	0.19	0.20
Freq(cas)	0.32	0.52	0.28	0.43	0.34	0.34	92.0	0.52	0.43	0.37	0.29	0.33	0.34	0.35	0.31	0.27	0.01	0.25	0.25
Polym.	L/*9	C/T	C/T	G/A	2/9	A/G	A/G	2/9	4 G/A	A/T	A/C	A/G	1/A	G/A	2/1	2/9	G/A	C/T	1/0
PG1	prom	in 1	in.	in 1	in1	in1	in2	in2	in3	in4	in4	ju6	3'UTR	3'UTR	3'UTR				
name of markers	99-1485/251	99-622/95	99-619/141	4-76/222	4-77/151	4-71/233	4-72/127	4-73/134	99-610/250	99-609/225	4-90/283	99-602/258	99-600/492	99-598/130	99-217/277	99-576/421	4-61/269	4-66/145	4-67/40

§ Test Fisher—\$ ND: Not done —* disease associated allele / not associated allele

FIG. 18B

FIG. 19A HAPLOTYPE FREQUENCY ANALYSIS

POPULATIONS	AFFECTED	UNAFFECTED
sample sizes	CASES (n=491)	CONTROLS (n=317)
characteristics of populations	294 sporadic cases + 197 familial cases	28 unaffected (65 years or older) + 289 controls (65 years or older with PSA<4)

						,
		_	4-14/240	99-217/277	4-66/145	99-221/377
PG1 (8	p23)		in4	3'UTR	
distance bet	ween	mks	<100	0kb> <17	kb> <43	kb>
size (cases v	s cor	itrols)	481 vs 305	481 vs 302	481vs 300	481 vs 303
frequency % (co	ises/	controls)	65,7/62,1(C)	31,3/27,5(C)	25,1/19(C)	42,7/42,91 (A)
abs diff freq. all.	cases	-controls)	3.6	3.8	6.2	0
pvalı	ıe		1.47E-01	1.07E-01	4.68E-03	7.52E-01
Hardy Weindeberg		cases	5.84E-01	6.55E-01	2.54E-01	5.84E-01
Disequilibrium		controls	4.80E-01	2.21E-01	3.71E-01	2.54E-01
HAP 1 <43kb>		451 vs 297				//// /X /////::
HAP 2 <17kb>		451 vs 296				
HAP 3 <117kb>		452 vs 299		9994 - 199	////\$1///	
HAP 4 <100kb>		479 vs 302	(//// \$ /////	199 3 0 199		
HAP 5 <60kb>		476 vs 300				
HAP 6 <160kb>	PT2	476 vs 303	///// S //////	<u> </u>		
HAP 7 <160kb>		447 vs 297	/////\$ //////	m. 44. 341		//// /
HAP 8 <60kb>		446 vs 294				//// / #////
HAP 9 <117kb>		450 vs 296	(//// 5 /////			
HAP 10 <160kb>	PT3	474 vs 300		<u> </u>		
HAP 11 <160kb>	PT4	445 vs 294	(1/1/)\$ (1/1/):	999 7V : 999	//// % /////	

	otype encies				
cases	controls	Odd ratio	Chi-S	Pvali	ue
0.116	0.067	1.83	9.85	(1.7e-03)	***
0.243	0.183	1.43	7.49	(6.2e-03)	**
0.182	0.130	17:49	7.18	(7.3e-03)	**
0.217	0.188	1.20	1.88	(1.7e-01)	*
0.155	0.132	1.20	1.54	(2.1e-01)	*
0.373	0.346	1.12	1.16	(2.7e-01)	*
0.095	0.042	2.39	14.62	(1.3e-04)	****
0.117	0.065	1.93	11.33	(7.3e-04)	***
0.178	0.125	1.53	7.80	(5.2e-03)	**
0.114	0.089	1.32	2.44	(1.1e-01)	*
0.095	0.032	3.18	21.59	(3.4e-06)	*****///

FIG. 19B

HAPLOTYPE FREQUENCY ANALYSIS PG1 (8p23)

markers	4-14/240	4-14/240 99-217/277	4-66/145	99-221/377
of haplotype Max		in4	3'UTR	
	ပ	L	၁	Ą
distance between mks	<100	<100kb> <17	<17kb> <	<43kb>

•							
	sample sizes	haplotype frequencies	fype ncies	odd ratio	chi-S	P value	lue
PG1	cases vs control	cases	controls				
cases vs control	455 vs 294	0.095	0.032	3.18	21.59	3.40E-06	****
cases (<=65 years) vs controls	171 vs 294	0.105	0.032	3.56	20.91	4.60E-06	****
cases (>65 years) vs control	271 vs 294	0.079	0.032	2.60	12.13	4.80E-04	***
sporadic cases vs controls	266 vs 294	960.0	0.032	3.23	19.73	8.60E-06	****
sporadic cases (<=65 years) vs controls	85 vs 294	0.095	0.032	3.20	12.04	5.00E-04	***
sporadic cases (>65 years) vs controls	178 vs 294	0.085	0.032	2.82	12.75	3.50E-04	***
informative sporadic cases vs controls	67 vs 294	0.062	0.032	2.00	2.70	9.40E-02	**
familial cases vs controls	179 vs 294	0.098	0.032	3.32	18.33	1.80E-05	****
familial cases (<=65 years) vs controls	86 vs 294	0.112	0.032	3.83	17.98	2.20E-05	****
familial cases (>65 years) vs controls	93 vs 294	0.075	0.032	2.48	6:59	1.00E-02	**
familial cases (>=3 caP) vs controls	79 vs 294	0.123	0.032	4.26	21.33	3.70E-06	*****

FIG. 20

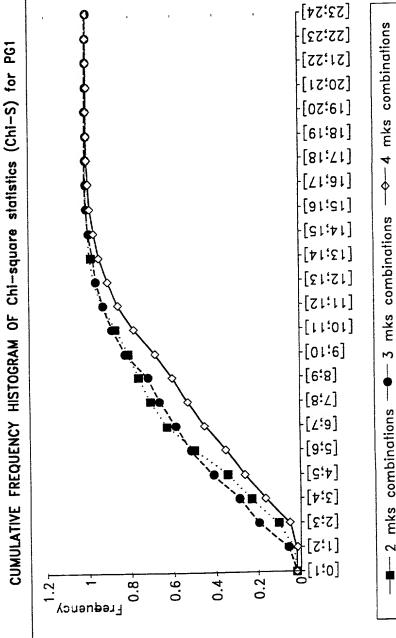
HAPLOTYPE FREQUENCY ANALYSIS (PG1)

### Attributable Risk % Markers in PG1 G/T C/I Size (cases vs controls) 336 vs 108 363 vs 108 364/26 allelic frequency % (cases / controls) 10.1 7 diff freq. all. % (cases-controls) 964E-03 1.35 hardy	C/G int 363 vs 173 34726 (G) 31 (G) 7.4 1.35E-02	A/G 1 336 vs 130 34/26 (A) 28 (A) 8.3 1.43E-02	()	A/G in4 347 vs 126 35/25 (G)	C/G in6	Į.	_		_			
10.1 10.1	3 (G) (G) III	╡╸┠ ╍╎╸╎╍╏╍╏ ╾┼╾╂	352 vs 129 52/42 (G) 52 (G)	in4 347 vs 126 35/25 (G)	jn6	3						
1.51	173 (G) 3)	╒╼╎╼╎╼╏ ╼╾┼═╸ ╏	52 vs 129 52/42 (G) 52 (G)	347 vs 126 35/25 (G)		3"UTR	frequ	frequencies				
Cases / Controls S242 (G)	34/26 (G) 31 (G) 7.4 1.35E-02 	28 (A) 28 (A) 8.3 1.43E-02	52/42 (G) 52 (G)	35/25 (G)	355 vs 129	456 vs 306			-			
ND 10.1	31 (G) 7.4 1.35E-02 	28 (A) 8.3 1.43E-02	52 (G)	1	27/17 (G)	25/19 (C)			_			
10.1	7.4 1.35E-02 **	8.3 1.43E-02		QN	24 (G)	24 (C)						
29,64E-03	1,35E-02 ** 1,43	1.43E-02	9.7	9.2	9.2	6.2	cases	controls	ppo	Attributable	Pvalue	9
1.51 1.51 1.51 1.51 1.51 1.51 1.51 1.51 1.52E-01 1.52E-01	1.43	:	7.29E-03	7.29E-03	3.18E-03	4.68E-03			Ratio	Risk %	(cases vs controls)	trols)
Odd Ratio 1.51 Outable Risk % ND cases 7.52E-01 controls 4.39E-01	1.43		1	ī	:	***						
cases 7.52E-01 controls 4.39E-01	-	1 49	1.48	1.55	1.72	1.43						
cases 7.52E-01 controls 4.39E-01	18 16	18 64	26 76	ND	8 46	13.16						
controls 4 39E-01	7 52E-01	5 84F-01	7.52E-01	7.52E-01	7.52E-01	3.43E-01						
controls 4 38E-01	4 02E 04	1 21E-01	7 52F-01	6.52E-02	7.52E-01	1.29E-01	_					
	4.03E-01						L					
haptotype 1 2 MKS 339 vs 167							0.263	0.152	1.99	18.55	\neg	
hanlotyne 2 3 MKS 330 vs 122	•						0.259	0.147	2 02	QN	(3.9e-04)	
A Mice		X				×	0.259	0.147	2 02	Q	(4.19-04)	
CVINI +	•						0.26	0.148	2.01	QN	(4.86-04)	:
5 MKS							0.258	0 149	2	2	(5.39-04)	-
+							0 255	0 146	2	£	(1 6e-03)	
haplotype 6 7 MKS 290 vs 99								4			Z	ND Not Done

FIG. 21

Comparison of Pvalue between nb of mks for haplotype (19 mks of PG1)

GENE # of markers combinations combinations PG1 19 171 969					
# of markers combinations			# of 2 mks	# of 3 mks	# of mks
19 171	GENE	# of markers	combinations	combinations	combinations
	PG1	19	171	696	3876



~

2 mks combinations